

Keith Haines

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139
papers

3,750
citations

37
h-index

55
g-index

145
ext. papers

4,103
ext. citations

4
avg, IF

5.35
L-index

#	Paper	IF	Citations
139	Altimetric assimilation with water property conservation. <i>Journal of Geophysical Research</i> , 1996 , 101, 1059-1077		196
138	Sea ice decline and 21st century trans-Arctic shipping routes. <i>Geophysical Research Letters</i> , 2016 , 43, 9720-9728	4.9	162
137	The Ocean Reanalyses Intercomparison Project (ORA-IP). <i>Journal of Operational Oceanography</i> , 2015 , 8, s80-s97	2.9	135
136	Modeling the paleocirculation of the Mediterranean: The Last Glacial Maximum and the Holocene with emphasis on the formation of sapropel S 1. <i>Paleoceanography</i> , 1998 , 13, 586-606		134
135	Modeling the dispersal of Levantine Intermediate Water and its role in Mediterranean deep water formation. <i>Journal of Geophysical Research</i> , 1996 , 101, 6591-6607		97
134	How does the European eel (<i>Anguilla anguilla</i>) retain its population structure during its larval migration across the North Atlantic Ocean?. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2006 , 63, 90-106	2.4	86
133	Atmosphere drives recent interannual variability of the Atlantic meridional overturning circulation at 26.5°N. <i>Geophysical Research Letters</i> , 2013 , 40, 5164-5170	4.9	75
132	Use of the Temperature-Salinity Relation in a Data Assimilation Context. <i>Journal of Atmospheric and Oceanic Technology</i> , 1999 , 16, 2011-2025	2	75
131	Intercomparison of the Arctic sea ice cover in global ocean-sea ice reanalyses from the ORA-IP project. <i>Climate Dynamics</i> , 2017 , 49, 1107-1136	4.2	70
130	Eddy-Forced Coherent Structures As A Prototype of Atmospheric Blocking. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2007 , 113, 681-704	6.4	70
129	The Need for a Dynamical Climate Reanalysis. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 495-502	6.1	68
128	Ocean heat content variability and change in an ensemble of ocean reanalyses. <i>Climate Dynamics</i> , 2017 , 49, 909-930	4.2	67
127	An assessment of air-sea heat fluxes from ocean and coupled reanalyses. <i>Climate Dynamics</i> , 2017 , 49, 983-1008	4.2	67
126	Isolating the signal of ocean global warming. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	66
125	Toward an Understanding of Deep-Water Renewal in the Eastern Mediterranean. <i>Journal of Physical Oceanography</i> , 2000 , 30, 443-458	2.4	66
124	Response of the Mediterranean Sea thermohaline circulation to observed changes in the winter wind stress field in the period 1980-1993. <i>Journal of Geophysical Research</i> , 1999 , 104, 7771-7784		65
123	An assessment of ten ocean reanalyses in the polar regions. <i>Climate Dynamics</i> , 2019 , 52, 1613-1650	4.2	63

122	Salinity Adjustments in the Presence of Temperature Data Assimilation. <i>Monthly Weather Review</i> , 2002 , 130, 89-102	2.4	63
121	Global hydrology modelling and uncertainty: running multiple ensembles with a campus grid. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 4005-21	3	61
120	A Direct Method for Assimilating Sea Surface Height Data into Ocean Models with Adjustments to the Deep Circulation. <i>Journal of Physical Oceanography</i> , 1991 , 21, 843-868	2.4	61
119	Modelling the global coastal ocean. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 939-51	3	60
118	Calculating the Ocean's Mean Dynamic Topography from a Mean Sea Surface and a Geoid. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008 , 25, 1808-1822	2	59
117	Origin and Impact of Initialization Shocks in Coupled Atmosphere-Ocean Forecasts*. <i>Monthly Weather Review</i> , 2015 , 143, 4631-4644	2.4	53
116	A Theoretical and Diagnostic Study of Solitary Waves and Atmospheric Blocking. <i>Journals of the Atmospheric Sciences</i> , 1989 , 46, 2063-2078	2.1	53
115	An ensemble of eddy-permitting global ocean reanalyses from the MyOcean project. <i>Climate Dynamics</i> , 2017 , 49, 813-841	4.2	52
114	Review and assessment of latent and sensible heat flux accuracy over the global oceans. <i>Remote Sensing of Environment</i> , 2017 , 201, 196-218	13.2	46
113	Historical reconstruction of the Atlantic Meridional Overturning Circulation from the ECMWF operational ocean reanalysis. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	46
112	The general circulation of the Mediterranean Sea from a 100-year simulation. <i>Journal of Geophysical Research</i> , 1998 , 103, 1121-1135		45
111	Data assimilation in ocean models. <i>Reports on Progress in Physics</i> , 1996 , 59, 1209-1266	14.4	44
110	Ocean altimeter assimilation with observational- and model-bias correction. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2008 , 134, 1761-1774	6.4	43
109	Steric sea level variability (1993-2010) in an ensemble of ocean reanalyses and objective analyses. <i>Climate Dynamics</i> , 2017 , 49, 709-729	4.2	42
108	Intercomparison and validation of the mixed layer depth fields of global ocean syntheses. <i>Climate Dynamics</i> , 2017 , 49, 753-773	4.2	41
107	A Web Map Service implementation for the visualization of multidimensional gridded environmental data. <i>Environmental Modelling and Software</i> , 2013 , 47, 218-224	5.2	40
106	Evaluation of the S(T) assimilation method with the Argo dataset. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2009 , 135, 739-756	6.4	40
105	Estimating Oceanic Heat Content Change Using Isotherms. <i>Journal of Climate</i> , 2009 , 22, 4953-4969	4.4	39

104	Salinity Assimilation Using S(T): Covariance Relationships. <i>Monthly Weather Review</i> , 2006 , 134, 759-771	2.4	39
103	Impact of the North Atlantic Oscillation on the trans-Atlantic migrations of the European eel (<i>Anguilla anguilla</i>). <i>Journal of Geophysical Research</i> , 2008 , 113,		38
102	Towards seasonal Arctic shipping route predictions. <i>Environmental Research Letters</i> , 2017 , 12, 084005	6.2	34
101	Transports and budgets in a 1/4 ° global ocean reanalysis 1989–2010. <i>Ocean Science</i> , 2012 , 8, 333-344	4	31
100	Mean dynamic topography: inter-comparisons and errors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 903-16	3	31
99	On the importance of the choice of wind stress forcing to the modeling of the Mediterranean Sea circulation. <i>Journal of Geophysical Research</i> , 1998 , 103, 15729-15749		31
98	Marine ecosystem models for earth systems applications: The MarQUEST experience. <i>Journal of Marine Systems</i> , 2010 , 81, 19-33	2.7	30
97	Ocean Reanalyses: Recent Advances and Unsolved Challenges. <i>Frontiers in Marine Science</i> , 2019 , 6,	4.5	29
96	The Mean State and Variability of the North Atlantic Circulation: A Perspective From Ocean Reanalyses. <i>Journal of Geophysical Research: Oceans</i> , 2019 , 124, 9141-9170	3.3	29
95	Interpretation of Water Mass Transformations Diagnosed from Data Assimilation. <i>Journal of Physical Oceanography</i> , 2003 , 33, 485-498	2.4	29
94	A new perspective on warming of the global oceans. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	28
93	A hydraulic box model study of the Mediterranean response to postglacial sea-level rise. <i>Paleoceanography</i> , 2003 , 18, n/a-n/a		28
92	Seasonal and Interannual Variability in a Model of the Mediterranean under Derived Flux Forcing. <i>Journal of Physical Oceanography</i> , 2000 , 30, 1069-1082	2.4	28
91	Eddy-Forced Coherent Structures As A Prototype of Atmospheric Blocking 1987 , 113, 681		25
90	Vacillation cycles and blocking in a channel. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1998 , 124, 873-895	6.4	24
89	A neural network atmospheric model for hybrid coupled modelling. <i>Climate Dynamics</i> , 2001 , 17, 445-455	4.2	24
88	The EU-FP7 ERA-CLIM2 Project Contribution to Advancing Science and Production of Earth System Climate Reanalyses. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1003-1014	6.1	23
87	Improved Arctic sea ice thickness projections using bias-corrected CMIP5 simulations. <i>Cryosphere</i> , 2015 , 9, 2237-2251	5.5	23

86	An ocean modelling and assimilation guide to using GOCE geoid products. <i>Ocean Science</i> , 2011 , 7, 151-164	4	22
85	The geoid EDIN2000 and mean sea surface topography around the British Isles. <i>Geophysical Journal International</i> , 2004 , 157, 565-577	2.6	22
84	Initialization of Seasonal Forecasts Assimilating Sea Level and Temperature Observations. <i>Journal of Climate</i> , 2001 , 14, 4292-4307	4.4	22
83	Aspects of designing and evaluating seasonal-to-interannual Arctic sea-ice prediction systems. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 672-683	6.4	22
82	Mechanisms Linking Volcanic Aerosols to the Atlantic Meridional Overturning Circulation. <i>Journal of Climate</i> , 2012 , 25, 3039-3051	4.4	21
81	A comparison of two methods for the assimilation of altimeter data into a shallow-water model. <i>Dynamics of Atmospheres and Oceans</i> , 1993 , 17, 89-133	1.9	21
80	Impact of hydrographic data assimilation on the modelled Atlantic meridional overturning circulation. <i>Ocean Science</i> , 2010 , 6, 761-774	4	21
79	Modelling changes in Mediterranean thermohaline circulation 1987-1995. <i>Journal of Marine Systems</i> , 2002 , 33-34, 51-62	2.7	20
78	Sea Level Assimilation Experiments in the Tropical Pacific. <i>Journal of Physical Oceanography</i> , 2001 , 31, 305-323	2.4	20
77	GODIVA2: interactive visualization of environmental data on the Web. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 1035-9	3	19
76	Modeling the diurnal variability of sea surface temperatures. <i>Journal of Geophysical Research</i> , 2008 , 113,		19
75	The decay of modons due to Rossby wave radiation. <i>Physics of Fluids</i> , 1994 , 6, 3487-3497	4.4	19
74	Isolated Anomalies in Westerly Jet Streams: A Unified Approach. <i>Journals of the Atmospheric Sciences</i> , 1991 , 48, 510-526	2.1	19
73	Freshwater and heat transports from global ocean synthesis. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 394-409	3.3	18
72	Altimeter assimilation in the OCCAM global model Part II: TOPEX/POSEIDON and ERS-1 assimilation. <i>Journal of Marine Systems</i> , 2000 , 26, 323-347	2.7	18
71	An assessment of upper ocean salinity content from the Ocean Reanalyses Inter-comparison Project (ORA-IP). <i>Climate Dynamics</i> , 2017 , 49, 1009-1029	4.2	17
70	Interannual-decadal variability of wintertime mixed layer depths in the North Pacific detected by an ensemble of ocean syntheses. <i>Climate Dynamics</i> , 2017 , 49, 891-907	4.2	16
69	How well can we measure the ocean's mean dynamic topography from space?. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 3336-3356	3.3	16

68	Mechanisms of Atlantic Meridional Overturning Circulation variability simulated by the NEMO model. <i>Ocean Science</i> , 2014 , 10, 645-656	4	16
67	Stability of the Mediterranean's thermohaline circulation under modified surface evaporative fluxes. <i>Journal of Geophysical Research</i> , 2002 , 107, 7-1		16
66	A Study of Temperature Changes in the Upper North Atlantic: 1950-84. <i>Journal of Climate</i> , 2000 , 13, 2697-2711	4.4	15
65	Altimeter assimilation in the OCCAM global model. <i>Journal of Marine Systems</i> , 2000 , 26, 303-322	2.7	15
64	Baroclinic Modons as Prototypes for Atmospheric Blocking. <i>Journals of the Atmospheric Sciences</i> , 1989 , 46, 3202-3218	2.1	15
63	Assimilation of RAPID array observations into an ocean model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 2105-2117	6.4	14
62	Coupling of surface air and sea surface temperatures in the CERA-20C reanalysis. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2018 , 144, 195-207	6.4	14
61	A comparison of the variability of biological nutrients against depth and potential density. <i>Biogeosciences</i> , 2010 , 7, 1263-1269	4.6	13
60	Serving GODAE Data and Products to the Ocean Community. <i>Oceanography</i> , 2009 , 22, 70-79	2.3	13
59	Validation of ocean model syntheses against hydrography using a new web application. <i>Journal of Operational Oceanography</i> , 2009 , 2, 29-41	2.9	13
58	Improved SST-Precipitation Intraseasonal Relationships in the ECMWF Coupled Climate Reanalysis. <i>Geophysical Research Letters</i> , 2018 , 45, 3664-3672	4.9	12
57	An ECOOP web portal for visualising and comparing distributed coastal oceanography model and in situ data. <i>Ocean Science</i> , 2011 , 7, 445-454	4	12
56	Atlantic meridional heat transports in two ocean reanalyses evaluated against the RAPID array. <i>Geophysical Research Letters</i> , 2013 , 40, 343-348	4.9	11
55	Influence of systematic error correction on the temporal behavior of an ocean model. <i>Journal of Geophysical Research</i> , 2006 , 111,		11
54	Climate model forecast biases assessed with a perturbed physics ensemble. <i>Climate Dynamics</i> , 2017 , 49, 1729-1746	4.2	10
53	GCM studies of intermediate and deep waters in the Mediterranean. <i>Journal of Marine Systems</i> , 1998 , 18, 197-214	2.7	10
52	Low-frequency variability in atmospheric middle latitudes. <i>Surveys in Geophysics</i> , 1994 , 15, 1-61	7.6	10
51	South Atlantic meridional transports from NEMO-based simulations and reanalyses. <i>Ocean Science</i> , 2018 , 14, 53-68	4	10

50	A nutrient increment method for reducing bias in global biogeochemical models. <i>Journal of Geophysical Research</i> , 2010 , 115,		9
49	Decadal climate prediction (project GCEP). <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 925-37	3	9
48	Assimilation impacts on Arctic Ocean circulation, heat and freshwater budgets. <i>Ocean Modelling</i> , 2011 , 40, 147-163	3	8
47	Modelling nutrient cycling during the eastern Mediterranean transient event 1987-1995 and beyond. <i>Geophysical Research Letters</i> , 2002 , 29, 5-1	4.9	8
46	Comparing the UK Met Office Climate Prediction System DePreSys with idealized predictability in the HadCM3 model. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012 , 138, 81-90	6.4	7
45	Altimetric assimilation in a Mediterranean general circulation model. <i>Journal of Geophysical Research</i> , 1997 , 102, 10509-10523		7
44	North Atlantic Subtropical Mode Waters and Ocean Memory in HadCM3. <i>Journal of Climate</i> , 2006 , 19, 1126-1148	4.4	7
43	Diagnosing Natural Variability of North Atlantic Water Masses in HadCM3. <i>Journal of Climate</i> , 2005 , 18, 1925-1941	4.4	7
42	A comparison of GOCE and drifter-based estimates of the North Atlantic steady-state surface circulation. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015 , 35, 140-150	7.3	6
41	A novel transport assimilation method for the Atlantic meridional overturning circulation at 26°N. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2014 , 140, 2563-2572	6.4	6
40	Running climate models on grids using G-Rex. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 847-53	3	6
39	Palaeoceanography and numerical modelling: the Mediterranean Sea at times of sapropel formation. <i>Geological Society Special Publication</i> , 2000 , 181, 135-149	1.7	6
38	Frictional sinking of the dense water overflow in a z-Coordinate OGCM of the Mediterranean Sea. <i>Geophysical Research Letters</i> , 2000 , 27, 3969-3972	4.9	6
37	Persistent Jet Stream Intensifications: A Comparison between Theory and Data. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 145-154	2.1	6
36	Inverse Modeling of Global and Regional Energy and Water Cycle Fluxes using Earth Observation Data. <i>Journal of Climate</i> , 2020 , 33, 1707-1723	4.4	6
35	The assimilation of satellite-derived sea surface temperatures into a diurnal cycle model. <i>Journal of Geophysical Research</i> , 2008 , 113,		5
34	Combining altimetric/gravimetric and ocean model mean dynamic topography models in the GOCINA region 2007 , 3-10		5
33	Improving seasonal forecasting through tropical ocean bias corrections. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016 , 142, 2797-2807	6.4	5

32	Decoupled Freshwater Transport and Meridional Overturning in the South Atlantic. <i>Geophysical Research Letters</i> , 2019 , 46, 2178-2186	4.9	5
31	Argo real-time quality control intercomparison. <i>Journal of Operational Oceanography</i> , 2015 , 8, 108-122	2.9	4
30	Century-of-Information Research (CIR): A Strategy for Research and Innovation in the Century of Information. <i>Prometheus</i> , 2009 , 27, 27-45	0	4
29	A diagnostic study of interpentadal variability in the North Atlantic Ocean using a finite element model. <i>Ocean Modelling</i> , 2005 , 10, 69-81	3	4
28	Combined Use of Altimetry and In Situ Gravity Data for Coastal Dynamics Studies. <i>Space Science Reviews</i> , 2003 , 108, 205-216	7.5	4
27	Dynamics and Data Assimilation in Oceanography 1994 , 1-32		4
26	Styx Grid Services: Lightweight, Easy-to-Use Middleware for Scientific Workflows. <i>Lecture Notes in Computer Science</i> , 2006 , 996-1003	0.9	3
25	Ocean Data Assimilation 2010 , 517-547		3
24	Uses of Ocean Data Assimilation and Ocean State Estimation 2003 , 289-296		3
23	Using lagged covariances in data assimilation. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2017 , 69, 1377589	2	2
22	The link between the Barents Sea and ENSO events simulated by NEMO model. <i>Ocean Science</i> , 2012 , 8, 971-982	4	2
21	Land surface anomaly simulations and predictions with a climate model: an El Niño Southern Oscillation case study. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009 , 367, 917-23	3	2
20	Impact of hydrographic data assimilation on the Atlantic meridional overturning circulation		2
19	An ocean modelling and assimilation guide to using GOCE geoid products		2
18	Transports and budgets in a 1/4° global ocean reanalysis 1989-2010		2
17	Synthesis and Assimilation Systems - Essential Adjuncts to the Global Ocean Observing System 2010 ,		2
16	Combined Use of Altimetry and in Situ Gravity Data for Coastal Dynamics Studies. <i>Space Sciences Series of ISSI</i> , 2003 , 205-216	0.1	2
15	A perturbed biogeochemistry model ensemble evaluated against in situ and satellite observations. <i>Biogeosciences</i> , 2018 , 15, 6685-6711	4.6	2

14	Effect of ENSO Phase on Large-Scale Snow Water Equivalent Distribution in a GCM. <i>Journal of Climate</i> , 2009 , 22, 6153-6167	4.4	1
13	Styx Grid Services: Lightweight Middleware for Efficient Scientific Workflows. <i>Scientific Programming</i> , 2006 , 14, 209-216	1.4	1
12	Satellite altimetry data assimilation in the OCCAM global ocean model. <i>Physics and Chemistry of the Earth</i> , 1999 , 24, 375-380		1
11	Can the boundary profiles at 26°N be used to extract buoyancy-forced Atlantic Meridional Overturning Circulation signals?. <i>Ocean Science</i> , 2020 , 16, 1067-1088	4	1
10	Mechanisms of AMOC variability simulated by the NEMO model		1
9	Altimeter Covariances and Errors Treatment 2003 , 297-308		1
8	Assimilation of Hydrographic Data and Analysis of Model Bias 2003 , 309-320		1
7	An ECOOP web portal for visualising and comparing distributed coastal oceanography model and in-situ data		1
6	Perturbed Biology and Physics Signatures in a 1-D Ocean Biogeochemical Model Ensemble. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	1
5	Uncertainties of particulate organic carbon concentrations in the mesopelagic zone of the Atlantic ocean. <i>Open Research Europe</i> , 1, 43		1
4	Improved High Resolution Ocean Reanalyses Using a Simple Smoother Algorithm. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2021MS002626	7.1	0
3	Uncertainties of particulate organic carbon concentrations in the mesopelagic zone of the Atlantic ocean. <i>Open Research Europe</i> , 1, 43		0
2	Delivering NCOF operational marine data through the Internet. <i>Journal of Operational Oceanography</i> , 2008 , 1, 35-39	2.9	
1	The World at One's Fingertips: Interactive Interpretation of Environmental Data 395-416		